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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/964,410	09/28/2001	Kanji Kawakami	Q66456	2356
. 7	7590 06/03/2003			
SUGHRUE MION ZINN MACPEAK & SEAS, PLLC			EXAMINER	
2100 Pennsylvania Avenue, NW Washington, DC 20037-3213		WIMER, MICHAEL C		
			ART UNIT	PAPER NUMBER
			2021	

DATE MAILED: 06/03/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		AN
•	Application No.	Applicant(s)
	09/964,410	KAWAKAMI ET AL.
Office Action Summary	Examiner	Art Unit
	Michael C. Wimer	2821
The MAILING DATE of this communication app Period f r Reply	pears on the cov r she t wi	th the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailinearned patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, however, may a re ly within the statutory minimum of thirt will apply and will expire SIX (6) MON e, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
1) Responsive to communication(s) filed on 19	<u>March 2003</u> .	
2a)⊠ This action is FINAL . 2b)☐ Th	nis action is non-final.	
3) Since this application is in condition for allow closed in accordance with the practice under		
Disposition of Claims	dia adia a	
4) Claim(s) 1 and 3-16 is/are pending in the app		
4a) Of the above claim(s) is/are withdra	wn from consideration.	
5) Claim(s) is/are allowed.		
6) Claim(s) <u>1 and 3-16</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) ☐ Claim(s) are subject to restriction and/o Application Papers	or election requirement.	
9) The specification is objected to by the Examine		
10) The drawing(s) filed on is/are: a) □ acce	pted or b) objected to by the	ne Examiner.
Applicant may not request that any objection to th		
11) The proposed drawing correction filed on		isapproved by the Examiner.
If approved, corrected drawings are required in re	• •	
12) The oath or declaration is objected to by the Ex	kaminer.	
Priority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. §	3 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:		
 Certified copies of the priority document 	ts have been received.	
Certified copies of the priority document	ts have been received in A	oplication No
3. Copies of the certified copies of the prio application from the International Bu* See the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).	· ·
14) Acknowledgment is made of a claim for domesti	ic priority under 35 U.S.C.	§ 119(e) (to a provisional application).
a) ☐ The translation of the foreign language pro	, ,	
Attachment(s)		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Ir	Summary (PTO-413) Paper No(s) nformal Patent Application (PTO-152)
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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1,3-7 and 9-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chardin (3594805).

Regarding Claims 1,3-7 and 9-16, Chardin shows in Figs 1 and 2, an antenna comprising a converger, including a conductor 2 which converges a magnetic flux of an EM wave within a through hole at the center portion of the conductor and a cutout extending from a part of the through hole along the periphery of the conductor 2, and a converter 3, and a resistance reducer 5 provided on a peripheral portion of the conductor 2, all arranged as claimed. It would have been obvious to the skilled artisan that the annular conductor 2, converter 3, with a cutout and sleeve 5 for reducing resistance, all perform the functions alleged here. As to Claim 6, it is obvious that the size of the converter is much smaller than the intended frequencies to be received. As to Claims 14-16, pluralizing the antenna elements would have been obvious to the skilled artisan, and no phase delay is deemed to occur, and therefore, it would have been obvious to the skilled artisan that the output voltages are additive.

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3. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chardin as applied to claims above, and further in view of Hadden et al (5223851).

Hadden et al are cited to show that an antenna 10 may be formed on a semiconductor IC 34. It would have been obvious to the skilled artisan to employ such an antenna as in Chardin along with an IC as taught by Hadden et al.

Response to Arguments

4. Applicant's arguments filed 3/19/2003 have been fully considered but they are not persuasive. Specifically, the magnetic flux in Chardin does converge within the through hole (the portion within the conductive sleeve), or within the ferrite 1. Since the claimed structure is shown or made obvious to those skilled in the antenna art, it is not seen how the claims at hand patentably define over the prior art of record.

Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later

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than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Michael C. Wimer whose telephone number is (703)

305-3555. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Don K. Wong can be reached on (703) 308-4856. The fax phone numbers

for the organization where this application or proceeding is assigned are (703) 308-7722

for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308-

0956.

Michael C. Wimer Primary Examiner

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MCW 12 May 2003